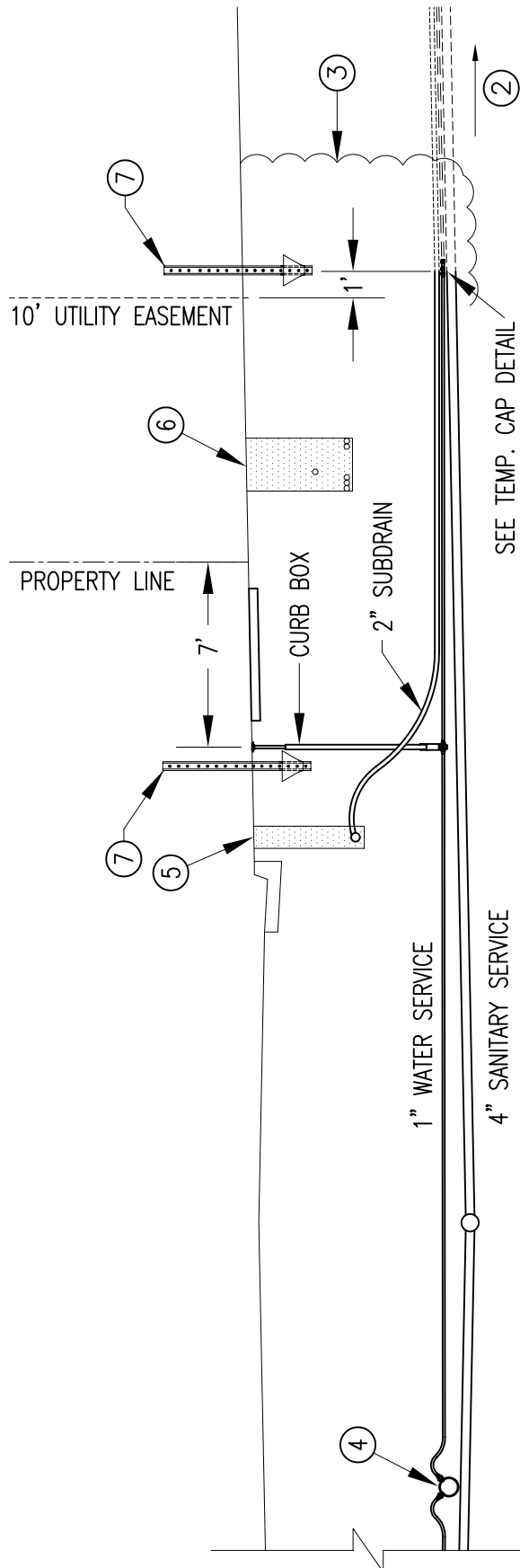


## NOTES

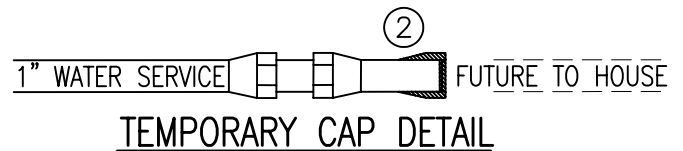
1. FINAL RECORD OF SERVICE LOCATIONS: END OF SEWER, WATER & SUBDRAIN SERVICES SHALL BE REFERRED TO LOT CORNER AND PROPERTY LINE. SHOW INV. ELEV. AND FINISHED GRADE OF SEWER AND UNDERGROUND SERVICES AND DISTANCE FROM LOT CORNER TO SEWER SERVICE. ALSO SHOW DIM. BETWEEN END OF SEWER SERVICE AND ENDS OF WATER AND UNDERGROUND DRAIN SERVICE.
- ② PLUG END OF UNDERGROUND SERVICES. PLACE 4"x4" WOOD POST, EXTENDING ONE FOOT ABOVE GRADE.
- ③ FUTURE EXTENSION OF SERVICES BY OTHERS
- ④ WHEN INSTALLED IN SOLID ROCK, BLAST 4' BEYOND END OF PIPE FOR FUTURE CONNECTION.
- ⑤ REFER TO S.D.P. 4-01 SHEET 2 FOR WATER SERVICE TEMPORARY CAP DETAIL.
- ⑥ REFER TO S.D.P. 6-11 FOR ADDITIONAL WATER SERVICE DETAIL
- ⑦ REFER TO S.D.P. 1-08 FOR ADDITIONAL SUBDRAIN DETAIL
- ⑧ SEWER SERVICE CONNECTIONS ON SAME SIDE AS WATERMAIN SHOULD BE PLACED BELOW WATERMAIN.

DEPARTMENT OF PUBLIC WORKS CITY OF ROCHESTER, MINNESOTA			
<b>SERVICE CONNECTIONS STUBBED INTO PROPERTY</b>			
<i>Donald Nelson</i> ASST. CITY ENGINEER		<i>Kevin W. Bremer</i> DIRECTOR	
SHT 1 OF 2 SHTS	DATE REVISED 3/22/06	PLATE NO. 4-01	REV. E



## NOTES

1. TO DETERMINE ELEVATION OF END OF SEWER SERVICE: USING TOP OF INSIDE OF MAIN AT WYE, BEGIN 2% GRADE (APPROX. 1/4" PER FT.) IF DEPTH OF INVERT AT END OF SERVICE IS GREATER THAN 8.5' BELOW FINISH BOULEVARD GRADE, INCREASE GRADIENT. FINAL DEPTH OF SEWER SERVICE LESS THAN 8' BELOW FINISH BOULEVARD GRADE SHALL BE REVIEWED AND APPROVED BY CITY ENGINEER.
- ② FUTURE EXTENSION OF SERVICES BY OTHERS.
- ③ WHEN INSTALLED IN SOLID ROCK, BLAST 4' BEYOND END OF PIPE FOR FUTURE CONNECTION.
- ④ REFER TO S.D.P. 6-11 FOR ADDITIONAL WATER SERVICE DETAIL.
- ⑤ REFER TO S.D.P. 1-08 FOR ADDITIONAL SUBDRAIN DETAIL.
- ⑥ REFER TO S.D.P. 4-03 FOR ADDITIONAL UTILITY SERVICE DETAIL.
- ⑦ INSTALL EITHER 4"x4" WOOD POST OR METAL SIGN POST MIN. ONE FOOT ABOVE GRADE TO MARK AND PROTECT LOCATION.



1. INSTALL COMPRESSION COUPLER AND CAP. TEST MAIN WITH CURB STOP IN OPEN POSITION.
- ② TEMPORARY CAP ASSEMBLY CONSISTS OF 1" SOLDER BUSHING, COPPER DISC, AND 3" COPPER TUBE (FORD SLP-4) OR APPROVED EQUAL.
3. REMOVE TEMPORARY CAP AND CONNECT INTO COUPLER WHEN HOUSE CONNECTION IS MADE.

DEPARTMENT OF PUBLIC WORKS  
CITY OF ROCHESTER, MINNESOTA

## SECTION A-A SERVICE CONNECTIONS

*Angela Nelson*  
ASST. CITY ENGINEER

*Kevin W. Bremer*  
DIRECTOR

SHT 2 OF 2 SHTS

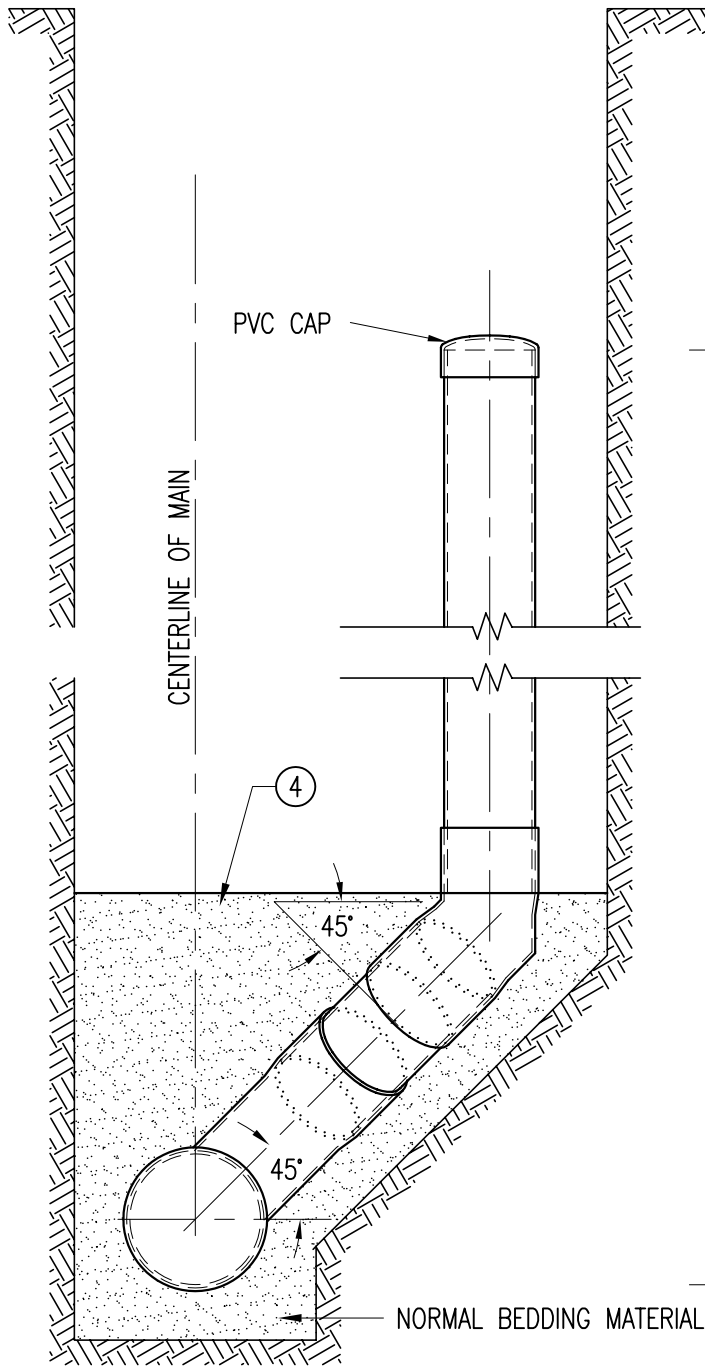
DATE REVISED  
3/22/06

PLATE NO.  
4-01

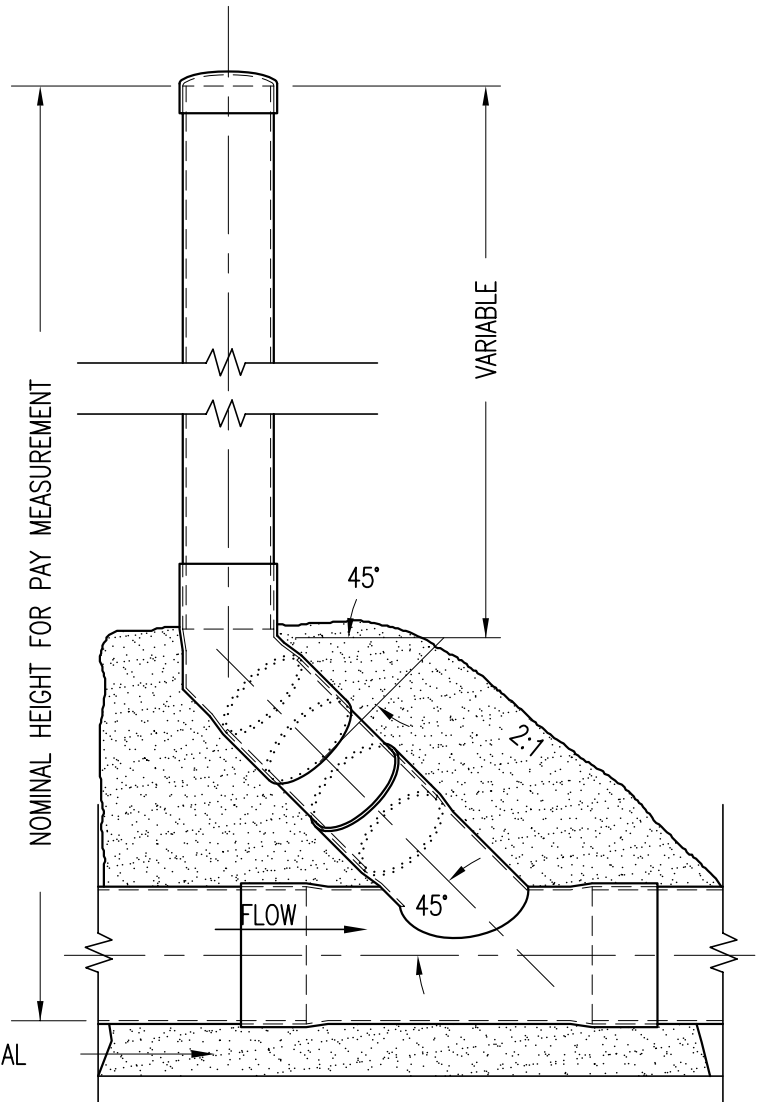
REV.  
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## NOTES

1. THE BID PRICE TO CONSTRUCT RISER SHALL INCLUDE ALL COSTS AND MATERIALS FOR WYE BRANCH IN MAIN, BEND, RISER PIPE, MORTAR, AND INSTALLATION.
2. PVC PIPE FOR RISER CONSTRUCTION SHALL BE OF THE SAME A.S.T.M. DESIGNATION AS THE MAIN UNLESS OTHERWISE SPECIFIED.
3. RISER SHALL BE ALLOWED ONLY ON 4" SERVICE LINES.
- ④ FURNISH AND COMPACT BEDDING MATERIAL TO COMPLETELY FILL TRENCH TO THE DEPTH OF THE 45° BEND AS SHOWN.



END ELEVATION



SIDE ELEVATION

DEPARTMENT OF PUBLIC WORKS  
CITY OF ROCHESTER, MINNESOTA

## STANDARD 4IN. RISER

*Donald Nelson*  
ASST. CITY ENGINEER

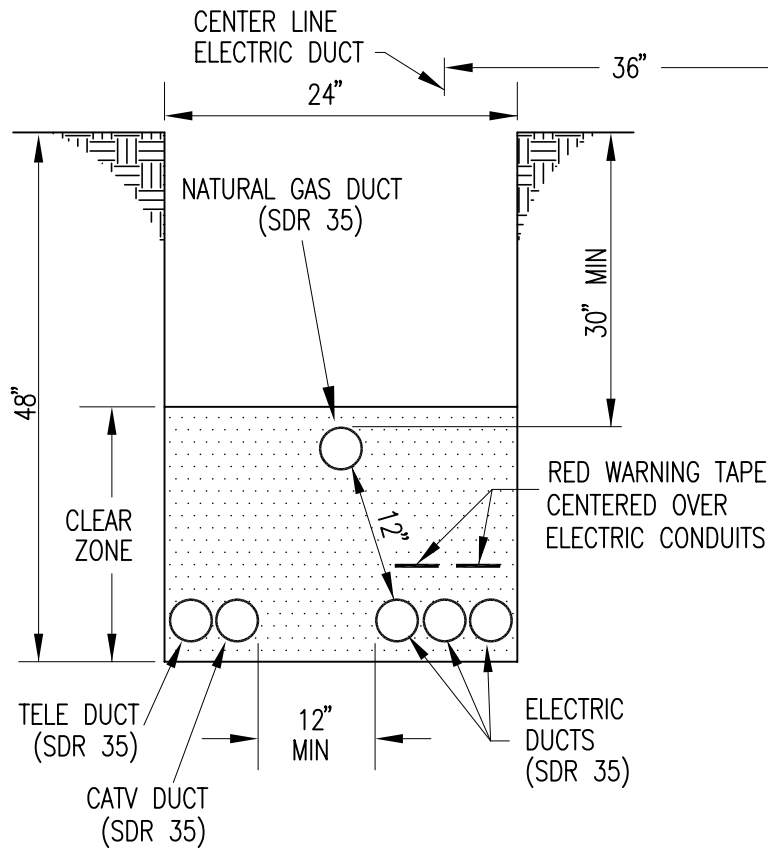
*Paul W. Finner*  
DIRECTOR

SHT 1 OF 1 SHTS

DATE REVISED  
3/22/06

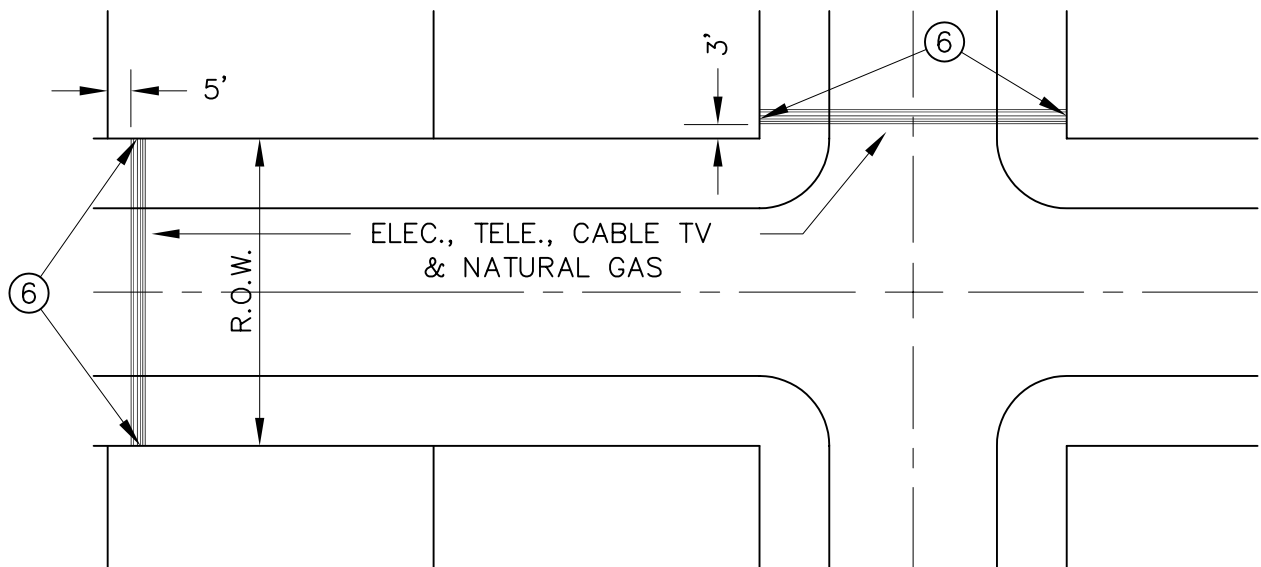
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## NOTES

1. CLEAR ZONE SHALL NOT CONTAIN BACKFILL GRANULAR MATERIAL LARGER THAN 1/4" IN DIAMETER.
2. TRENCH BED SHALL BE OF A SMOOTH, UNIFORM GRADE, COMPACTED, AND FREE OF STONES OR PROTRUSIONS LARGER THAN 1/4". UNSUITABLE TRENCH BEDS SHALL RECEIVE A 2" COMPACTED LAYER OF "CLEAR ZONE" BACKFILL PRIOR TO CONDUIT PLACEMENT.
3. ELECTRIC DUCT TO BE NEAREST DUCT TO PROPERTY LINE.
4. CONDUIT END CAP COLORS ARE:  
RPU-RED  
CABLE TV-PINK  
NW BELL TELE-BLAZE ORANGE  
NATURAL GAS-YELLOW
5. CONDUIT NEEDING SURFACE ACCESS SHALL BE DONE SO BY USING LONG SWEEP BENDS.
- ⑥ A 4"x4" WOODEN POST, EXTENDING ONE FOOT ABOVE GRADE, SHALL BE PLACED BY THE UTILITY CROSSING CONDUITS TO MARK THEIR LOCATION.



DEPARTMENT OF PUBLIC WORKS CITY OF ROCHESTER, MINNESOTA			
<b>STREET CROSSINGS FOR UTILITY CONDUITS</b>			
<i>Donald L. Nelson</i> ASST. CITY ENGINEER		<i>Keith W. Finner</i> DIRECTOR	
SHT 1 OF 1 SHTS	DATE REVISED 4/1/04	PLATE NO. 4-03	REV. B